

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: CTL58866

Luminaire Tested: **NB-SW-3T5-DXD-2 OUTBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58866
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DXD-2 OUTBOARD ONLY
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & LAMP ISOLATORS

Light Source: 54 WATT T5 LAMP
FP54T5/835HO. LUMEN RATING = 5000 LMS.
Ballast/Driver: -

Summary

Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 5437.1 lumens
Efficiency: 54.4%
Efficacy: 46.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.04 / 1.13
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

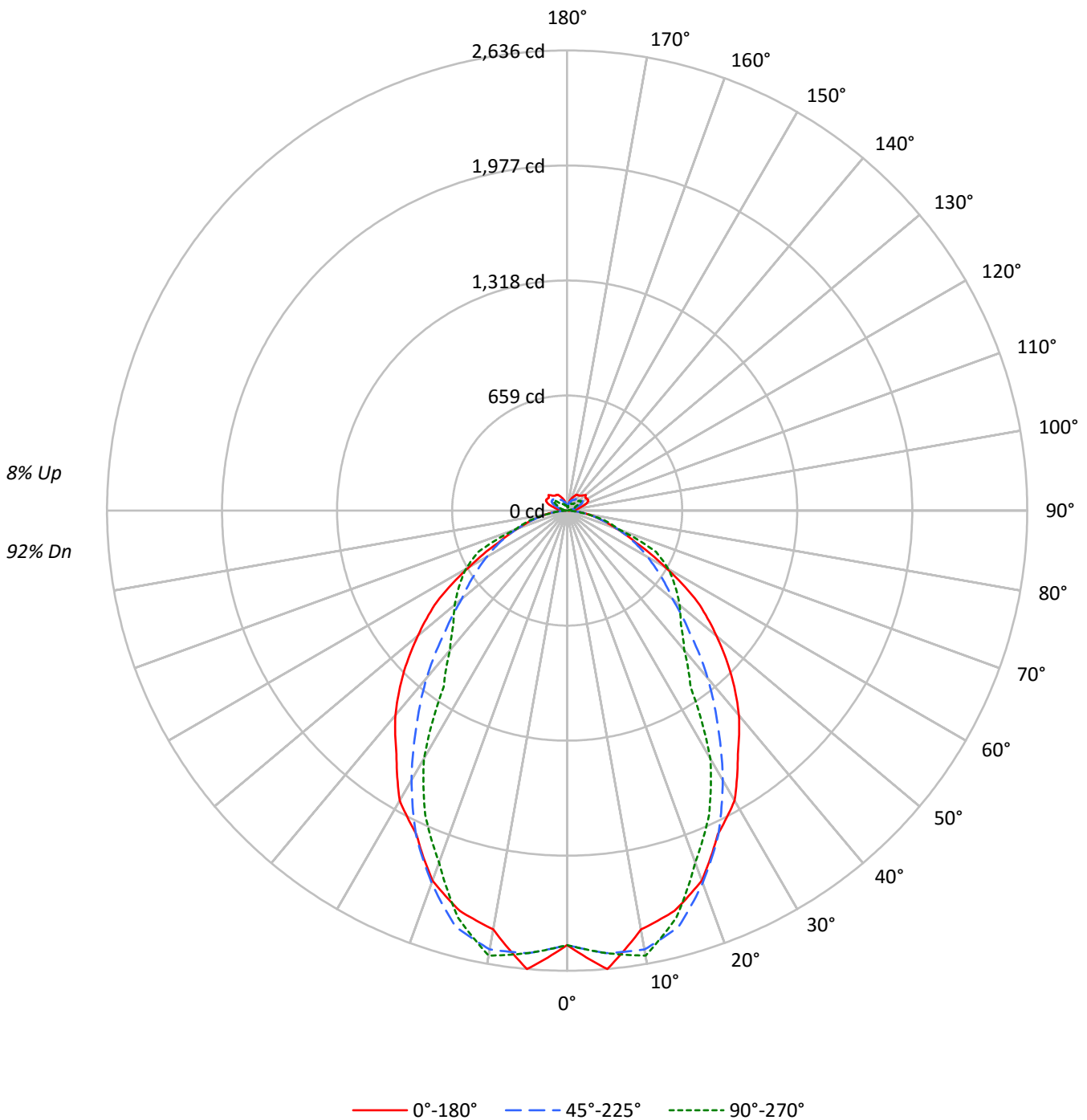
Input Watts (W): 118
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	64	64	64	64	62	62	62	62	58	58	58	55	55	55	52	52	52	50
1	59	57	55	53	57	55	53	51	52	50	49	49	48	47	47	46	45	43
2	54	50	47	44	52	49	46	43	46	44	42	44	42	40	42	40	39	37
3	50	45	41	38	48	44	40	37	41	38	36	39	37	35	38	35	34	32
4	46	40	36	33	44	39	35	32	37	34	31	36	33	30	34	32	30	28
5	43	36	32	29	41	35	31	28	34	30	27	32	29	27	31	28	26	25
6	40	33	28	25	38	32	28	25	31	27	24	30	26	24	28	26	23	22
7	37	30	26	23	36	29	25	22	28	25	22	27	24	22	26	23	21	20
8	34	28	23	20	33	27	23	20	26	22	20	25	22	20	24	21	19	18
9	32	26	21	19	31	25	21	18	24	21	18	23	20	18	23	20	18	17
10	30	24	20	17	30	23	19	17	22	19	17	22	19	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8930	8930	8930
5°	9446	8956	8916
10°	8785	8881	8928
15°	8681	8553	8264
20°	8429	7896	7340
25°	7873	7210	6626
30°	7681	6395	5741
35°	7164	5547	4412
40°	6830	4787	3854
45°	6365	3986	3541
50°	5818	3333	3397
55°	5259	2957	3243
60°	4227	2602	3096
65°	3264	2267	2832
70°	2681	1845	1767
75°	2259	1367	1419
80°	1854	965	814
85°	1361	441	305



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	243.6	4.5	2.4
10°-20°	678.7	12.5	6.8
20°-30°	930.7	17.1	9.3
30°-40°	948.5	17.4	9.5
40°-50°	829.3	15.3	8.3
50°-60°	663.1	12.2	6.6
60°-70°	448.7	8.3	4.5
70°-80°	219.5	4.0	2.2
80°-90°	55.3	1.0	0.6
90°-100°	12.9	0.2	0.1
100°-110°	52.6	1.0	0.5
110°-120°	88.9	1.6	0.9
120°-130°	96.1	1.8	1.0
130°-140°	74.2	1.4	0.7
140°-150°	49.7	0.9	0.5
150°-160°	29.4	0.5	0.3
160°-170°	13.4	0.2	0.1
170°-180°	2.8	0.1	0.0
0°-30°	1853.0	34.1	18.5
0°-40°	2801.5	51.5	28.0
0°-60°	4293.8	79.0	42.9
0°-90°	5017.3	92.3	50.2
90°-120°	154.3	2.8	1.5
90°-150°	374.3	6.9	3.7
90°-180°	420.0	7.7	4.2
0°-180°	5437.1	100.0	54.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2489	2489	2489	2489	2489	
5°	2636	2513	2545	2633	2545	243
15°	2374	2366	2468	2453	2415	667
25°	2044	2169	2049	1928	1923	952
35°	1704	1719	1504	1336	1232	1073
45°	1330	1246	996	890	921	1024
55°	913	768	654	702	755	802
65°	434	396	421	512	562	449
75°	199	198	197	207	224	215
85°	56	46	44	37	34	60
90°	7	2	1	0	1	14
95°	32	13	3	1	1	34
105°	85	69	40	29	27	93
115°	134	119	89	65	51	129
125°	128	123	104	100	97	118
135°	122	115	98	75	58	96
145°	108	96	76	62	48	68
155°	88	77	66	44	38	41
165°	58	62	49	34	30	17
175°	32	26	24	20	22	3
180°	26	26	26	26	26	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2489.0	2489.0	2489.0	2489.0	2489.0
5°	2636.4	2512.6	2544.9	2632.8	2544.8
10°	2436.7	2491.6	2552.8	2638.5	2588.6
15°	2374.4	2366.4	2467.9	2453.1	2415.1
20°	2255.6	2318.6	2269.8	2161.6	2145.9
25°	2044.2	2169.3	2048.8	1928.5	1923.0
30°	1918.1	1931.0	1782.5	1636.9	1641.1
35°	1704.2	1719.2	1504.3	1336.1	1232.4
40°	1531.4	1483.5	1252.1	1076.0	1043.3
45°	1329.6	1246.4	996.3	890.1	920.6
50°	1116.6	1020.7	787.9	797.7	840.2
55°	912.6	768.2	653.8	701.9	754.8
60°	650.2	561.4	531.1	609.9	670.1
65°	433.8	395.5	420.6	512.3	562.1
70°	297.6	288.3	305.4	339.8	316.3
75°	199.4	197.6	197.3	206.6	224.3
80°	120.2	115.3	117.7	113.6	110.8
85°	55.7	45.8	43.5	37.0	34.5
90°	7.0	2.2	0.9	0.3	0.7
95°	32.4	13.4	2.8	0.8	0.9
100°	63.1	41.6	20.6	14.5	12.5
105°	85.2	69.0	40.5	29.4	27.2
110°	118.6	101.6	62.6	45.4	46.8
115°	133.8	118.8	88.8	65.1	50.9
120°	133.4	120.0	103.1	83.7	78.1
125°	127.6	123.1	103.8	100.0	96.6
130°	138.6	122.8	102.6	85.7	86.1
135°	121.7	115.4	98.3	75.2	58.1
140°	111.0	110.4	88.8	69.0	49.3
145°	107.6	95.8	76.2	61.9	48.4
150°	104.7	89.5	70.3	56.6	41.9
155°	88.1	76.9	65.7	43.8	38.0
160°	73.4	72.5	52.0	42.6	34.3
165°	58.5	61.5	48.7	33.7	29.7
170°	39.1	47.5	37.2	30.6	18.6
175°	31.8	26.0	24.1	19.8	22.5
180°	26.1	26.1	26.1	26.1	26.1

(END OF REPORT)